

# Devin Shende

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## EDUCATION

### University of California Santa Cruz

Sep 2025 – Expected Mar 2027

*Masters of Science in Natural Language Processing*

*Santa Clara, CA*

- **Relevant Coursework:** Introduction to NLP, Deep Learning For NLP, Data Science and Machine Learning Fundamentals

### University of California Santa Cruz

Sep 2021 – Jun 2025

*Bachelor of Science in Computer Science, Minor in Spanish Studies, GPA 3.2*

*Santa Cruz, CA*

- **Relevant Coursework:** Introduction to Artificial Intelligence, Applied Machine Learning: Deep Learning, Computer Vision

## TECHNICAL SKILLS

**Programming Languages:** Python, C/C++, JavaScript, Dart, HTML/CSS

**Natural Languages:** Fluent in Spanish (awarded Oregon State Seal of Biliteracy)

**Libraries:** PyTorch, Keras, Pandas, Tensorflow, Sklearn, Flutter, Flask

**Developer Tools:** AWS, Google Cloud Platform, Git, Docker, VS Code, CAD

**Concepts:** Machine Learning, HPC, Parallel Programming

## EXPERIENCE

### HPC Software Engineer

Jun 2019 – Present

*ParaTools Inc.*

*Eugene, OR*

- Contributed to DOE funded project TAU Commander. Improved reach of the TAU profiler to be more user friendly. Integrated Python support, supported Chrome browser for trace visualization in the TAU Commander workflow, and tab auto completion of commands.
- Created ParaTools chatbot, leveraging ChatGPT and Gemini APIs to improve developer productivity with LLMs.
- Made promotional videos for Adaptive Computing Inc.'s ODDC cloud software for ParaTools Pro for E4S™: Extreme-Scale Scientific Stack (E4S). Worked on testing of E4S containers on NVIDIA H100 and AMD MI300A GPUs to develop and train new machine learning models.

### Data Science Intern

Jul 2023 – Aug 2023

*San Diego Supercomputer Center*

*La Jolla, CA*

- Conducted in-depth exploratory data analysis (EDA) on BurnPro3D wildfire simulation data, leveraging data visualization tools to correlate key features for runtime prediction and produce an optimized dataset for models.
- Framed the runtime prediction challenge as both classification and regression tasks, developing and evaluating multiple machine learning models to predict runtime as accurately as possible.

## PROJECTS

### EventMap | Flutter

Jun 2024 – Present

- Lead developer on team of four to build an application to find ongoing events on campus.
- EventMap LLC was incorporated and has a patent. Published on the Apple App Store

### Hurricane Damage Prediction | Python, Keras

Oct 2024 – Dec 2024

- Collaborated on a 5-person research team to integrate additional data sources with the goal of enhancing model accuracy for damage classification in a dataset containing satellite images of houses after hurricane Katrina.
- Designed and trained CNN, ResNet, and Vision Transformer (ViT) models for binary damage classification using before-and-after hurricane images. Enhanced the original Kaggle dataset with additional satellite imagery to see if we could improve performance.

## MISCELLANEOUS ACTIVITIES

### Head Climbing Coach

Sep 2023 - Jun 2025

*Santa Cruz Climbing*

*Santa Cruz, CA*

- Head coach for UCSC collegiate climbing team for two years. Led twice weekly practices, created custom training plans, organized group travel and social events.
- Coached athletes who placed top 5 in the west coast and went on to compete in USAC Collegiate Nationals.